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XV. *Meteorological Obſervations at* Ipſwich, *in* 1781, 1782 *and* 1783. *Lat.* 42°38′30″N. *Long.* 70°45′W. *By the Reverend* MANASSEH CUTLER, *F. A. A. and M. S. and Member of the Philoſophical Society at* Philadelphia.

THE thermometer uſed in the following obſervations, was made by *Gilbert*, on *Farenheit's* ſcale, with a tube fourteen inches in length. It is placed in an entry-way, remote from fire or the rays of the ſun. The barometer is of the portable kind, made by *Hair*. The quantity of rain is meaſured by an ombrometer, made of tin, twelve inches ſquare at the mouth, the ſides of which are perpendicular. The rain falls through the mouth into a funnel, which conducts it into a reſervoir, where it is ſecured from evaporation; and is, afterwards, decanted off and meaſured in a three-inch cubic meaſure. It ſtands firmly ſecured, in an open ſituation, with the mouth about two feet from the ground. The quantity of water contained in ſnows, is generally aſcertained by taking the cubic meaſure of a column of ſnow, at its mean depth, from the ſurface to the bottom, and diſſolving it in the ombrometer. But as ſnows frequently fall one upon another, or are accompanied with rain, there is great difficulty in aſcertaining, with exactneſs, the quantity of water that falls during the winter.

In the account of diſeaſes, not every diſorder that occured, but only ſuch as were moſt prevalent, are inſerted. *Edward A. Holyoke*, M. D. favoured me with the account of diſeaſes in *Salem*; Dr. *Iſaac Spafford* with thoſe in *Beverly*, and Dr. *Eliſha Whitney* with thoſe in *Ipſwich*.

Days.

Days.	H.	Ther.	Wind.	Weather.
1	8	31	NW.	Fair.
	1	38	SW.	
	10	40		
2	8	39	SW.	Fair.
	1	44		
	10	43		
3	8	37	N.	Cloudy and ſnow.
	1	36		
	10	33		
4	8	31	SW.	Clouds & ⊙ ſhine.
	1	35		
	10	36		
5	8	39	SW.	Fair, pleaſant.
	1	49	W.	
	10	42		
6	8	37	W.	Fair, fine day.
	1	41	SW.	
	10	42		
7	8	40	SW.	Clouds and rain.
	1	41	N.	
	9	36		
8	8	23	NW.	Fair.
	1	24		
	10	23		
9	8	18	NW.	Cloudy, ſnowed a little.
	1	23		
	10	26		
10	8	33	N.	A little ſnow, then rainy and foggy.
	1	40	SE.	
	10	41		
11	8	39	W.	Fair, high wind.
	1	44		
	10	43		
12	8	40	W.	Fair.
	1	44		
	10	40		
13	8	36	NW.	Fair.
	1	37		
	10	35		
14	8	31	SE.	Snow P. M. & moſt of the night.
	1	35		
	9	37		
15	8	35	W.	Fair. About 5 inches of ſnow on the ground.
	1	38		
	10	33		
16	8	26	W.	Clouds & ⊙ ſhine.
	1	31	NW.	
	10	27		
17	8	21	NW.	Clouds & ⊙ ſhine. In the evening Aurora Borealis.
	1	23		
	10	28		
18	8	21	NW.	Fair.
	1	27		
	10	28		
19	8	27	NW.	Fair.
	1	35		
	10	34		
20	8	27	N.	Cloudy.
	2	36		
	10	37		
21	8	36	NE.	Snow; rain; foggy.
	2	39		
	10	39		
22	8	36	NW.	⊙ ſhine; clouds; ſnow.
	1	38		
	10	37		
23	8	31	NE. NW.	Snowed; wind very high.
	2	37		
	10	30		
24	8	29	WSW. W.	Clouds and ſnow. About 6 inches of ſnow on the ground.
	2	34		
	10	33		
25	8	31	NW.	Fair. Faint Aurora Borealis at night.
	1	35		
	10	31		
26	8	26	NW.	Fair, pleaſant.
	1	31		
	10	32		
27	8	27	N.	Cloudy; at night rain.
	2	32		
	9	36		
28	8	40	SW. W.	Fair, fine day.
	2	42		
	10	37		
29	8	32	SW.	Fair.
	1	37		
	10	37		
30	8	32	SW. NW.	Rain; fair; high wind. Faint Aurora Borealis.
	1	39		
	10	35		
31	8	28	NW.	Fair. A very faint Aurora Borealis.
	1	31		
	10	31		

Therm.	A. M.	Noon.	P. M.
Higheſt,	40°	49°	43°
Loweſt,	18	23	23
Mean ſtat.	32	36.	33

The month, in general, open and mild. The frequent ſmall ſnows that fell, ſoon melted. Some days as pleaſant as April.

Diſeaſes in *Ipſwich*; worm caſes, ſome fevers, frequent abſceſſes, cephalalgias, ophthalmias—Healthy.

Diſeaſes in *Salem*; ophthalmias, a few pleuriſies and peripneumonys, a few vomitings and purgings, and worm caſes.

Diſeaſes in *Beverly*; pleuritic and peripneumonic fevers, worm caſes, vomitings and purgings.

Days.	H.	Ther.	Wind.	Weather.
1	8	28	SW.	Cloudy, a little ſnow.
	1	33	S.	
	10	36		
2	8	38	SSW.	Rain, foggy.
	1	40	Calm.	
	10	41		
3	8	41	WNW.	Fair, a very fine day.
	1	45	W.	
	10	37		
4	8	27	NE.	Mild ſn. ſtorm; ſnow fell 6 inches deep.
	1	31		
	10	30		
5	8	27	W.	Fair A. M. Rain in the evening.
	1	35		
	10	34		
6	8	31	NW.	Fair.
	1	35		
	10	32		
7	8	28	SW.	Very clear.
	1	32		
	10	33		
8	8	30	SW.	☉ ſhine and clouds.
	1	35		
	10	36		
9	8	23	NW. SW.	Very cold wind. Ther. rem. out of doors, the mercury ſtood at 0, at ½ after 9 o'clock, A. M.
	1	20		
	10	21		
10	8	19	NE.	Severe ſnow ſtorm; high winds; ſno. much drifted, about 16 inches deep.
	1	22		
	10	20		
11	8	27	NW.	Fine fair day.
	1	24		
	10	23		
12	8	14	NW.	Fair.
	1	23		
	10	21		
13	8	19	W. SW.	Fair.
	1	28		
	10	32		
14	8	35	SW.	Fair.
	1	42		
	10	41		
15	8	39	W. NW.	Fair. At night Aurora Borealis.
	1	41		
	10	43		
16	8	41	S. SE.	Clouds; ſnow; ☉ ſhine.
	1	38		
	10	37		
17	8	37	W. NW.	Thunder & lightning in the morn. clouds and ☉ ſhine P. M.
	1	40		
	10	34		
18	8	26	NW.	Fair, very cold.
	1	28		
	10	29		
19	8	27	S.	Snow and rain.
	1	34		
	10	37		
20	7	34	NW.	Fair.
	1	32		
	10	27		
21	7	23	W.	Fair.
	1	31		
	10	32		
22	8	34	E. NW.	Snow & rain; ſnow fell about 6 inches deep.
	1	38		
	11	37		
23	8	35	NE.	Hail and rain.
	1	37		
	11	38		
24	7	36	SW. W.	Fair.
	1	40		
	11	39		
25	7	36	SW. W.	Fair.
	1	40		
	10	39		
26	7	32	W. NW.	Fair.
	2	34		
	10	33		
27	7	30	W. SW.	Cloudy.
	1	36		
	10	39		
28	8	40	NW.	Fair.
	1	44		
	10	38		

		A. M.	Noon.	P. M.
Thermometer.	Higheſt,	41°	45°	43°
	Loweſt,	14	20	20
	Mean ſtat.	30	34	33

The ground covered with ſnow during the month.

Diſeaſes in *Ipſwich*; ſome remittent and bilious fevers, pulmonary phithiſes—Very healthy.
Diſeaſes in *Salem*; ophthalmias, chicken pox, abſceſſes, a few anginas, pleuriſies, hæmæptoes.
Diſeaſes in *Beverly*; ſlow remittent fevers, abſceſſes, rheumatiſms.

Days;

Days.	H.	Ther.	Wind.	Weather.
1	7	31	N.	☉ſhine ; clouds ; rain.
	1	32	SW.	
	10	35		
2	7	34	E.	Clouds ; rain and hail.
	2	37		
	10	38		
3	7	38	SW.	Fair ; wind high.
	1	40	W.	
	11	38		
4	7	34	NW.	Fair.
	1	38		
	10	35		
5	8	31	SW.	Cloudy, ſnow.
	2	38		
	10	37		
6	7	39	SW.	☉ſhine and clouds.
	1	45		
	11	43		
7	8	35	NE.	A N.E. ſn.ſtor. wind very high; ſnow fell 4 inches deep.
	1	32		
	10	29		
8	7	30	NW.	Snow A. M. ☉ſhine and clouds.
	1	32		
	11	32		
9	7	27	NW. W.	Fair.
	1	36		
	10	34		
10	7	31	NW. W.	Fair.
	1	39		
	10	38		
11	7	34	NW.	Fair.
	1	42		
	10	43		
12	7	39	W. SW.	Fair.
	1	46		
	11	42		
13	7	37	NW.	Fair.
	2	41		
	10	37		
14	7	31	SE.	Snow and rain.
	1	37		
	11	39		
15	7	40	SW. NE.	☉ſhine ; rain ; foggy.
	1	50		
	11	47		
16	7	46	NW.	Fair.
	1	47		
	11	42		
17	7	39	SW.	Fair.
	2	47		
	10	42		
18	7	43	NE.	Clouds ; rain ; ☉ſhine.
	2	45		
	10	43		
19	8	40	E. SW.	Rain ; wind high ; ☉ſhine.
	2	43		
	10	41		
20	7	40	NW.	Fair ; high wind.
	2	48		
	10	36		
21	7	37	NW.	Fair ; wind high.
	2	41		
	10	40		
22	7	36	NW.	Fair.
	2	40		
	9	38		
23	7	35	S. E.	Rain ; ſnow ; miſty.
	2	37		
	11	42		
24	7	43	W. N.	Fair.
	2	50		
	9	44		
25	7	36	NW.	Fair.
	2	38		
	9	36		
26	8	35	NW. SW.	Rain; ſnow at night, fell 2 inches deep.
	2	41		
	9	39		
27	7	36	NW.	Fair. Aur. Bor. at night ; a bri. glade of light from S.E. to N.W. acroſs hemiſ.
	2	39		
	9	37		
28	7	30	SE. N.	Snow & rain ; wind exceſſive high.
	1	32		
	9	33		
29	7	32	N.	Squally, ☉ſhine. At night a faint Aurora Borealis.
	1	35		
	10	34		
30	7	31	NW.	Fair.
	1	30		
	11	41		
31	7	36	NW.	Fair.
	2	43		
	10	41		

Them.	A.M.	Noon.	P.M.
Higheſt,	46°	50°	47°
Loweſt,	27	32	29
Mean ſtat.	36	40	38

The weather frequently cloudy and bluſtering, but no very violent ſtorms. Froſt nearly out of the ground at the cloſe of the month.

Diſeaſes in *Ipſwich* ; bilious and peripneumonic fevers, palſies, worm caſes.
Diſeaſes in *Salem* ; anginas, pleuriſies, cholics, worms.
Diſeaſes in *Beverly* ; mixed fevers, chronic rheumatiſms, worms, anginas.

Days.	H.	Ther.	Wind.	Weather.
1	6	37	NW.	Fair.
	2	45	N.	
	9	45		
2	7	38	NE.	Violent ſtorms of rain, ſnow & hail; high wind.
	2	40		
	11	39		
3	7	38	N. NE.	Very high wind; ſome ſnow & rain.
	2	40		
	9	40		
4	7	37	NW. W.	Fair.
	2	43		
	10	40		
5	7	41	W.	Fair.
	2	52		
	10	50		
6	6	45	N. NE.	Fair.
	1	50		
	10	48		
7	7	45	NE.	Fair.
	2	49		
	10	46		
8	7	49	NE. SW.	Small rain.
	2	48		
	10	46		
9	7	41	WNW	Fair; exceſſive high wind.
	1	43		
	10	42		
10	8	41	SE. S.	Fair.
	2	50		
	10	46		
11	7	42	NE.	Very rainy.
	2	43		
	10	42		
12	7	42	W. SW.	Fair.
	2	49		
	11	45		
13	7	43	NW.	Cloudy.
	2	45		
	10	43		
14	8	39	NW.	Fair.
	2	45		
	10	42		
15	6	38	NW.	Fair.
	1	46		
	9	48		
16	7	42	NE.	Fair.
	2	49		
	10	44		
17	7	41	NE. SW.	⊙ſhine and clouds.
	2	46		
	9	45		
18	7	46	NW.	Fair.
	2	50		
	9	47		
19	7	45	SE. NE.	Rain.
	1	47		
	9	44		
20	7	42	NE.	Small rain.
	2	43		
	9	42		
21	7	45	N. NE.	⊙ſhine and clouds.
	2	49		
	9	47		
22	7	45	N. SE.	⊙ſhine and clouds; very high wind.
	1	49		
	10	47		
23	7	44	W. SW.	⊙ſhine and clouds.
	2	49		
	10	46		
24	7	43	SSE.	Rainy.
	2	49		
	9	46		
25	7	48	W.	Clouds and ⊙ſhine.
	1	51		
	10	55		
26	6	55	W.	Clouds and ⊙ſhine.
	2	57		
	9	56		
27	6	52	N.	Fair.
	1	54		
	9	47		
28	6	45	N. SW.	Fair.
	1	58		
	10	51		
29	6	48	SW.	Fair.
	2	56		
	11	54		
30	6	51	S.	Cloudy; foggy; rain.
	2	52		
	11	56		

Therm.	A.M.	Noon.	P.M.
Higheſt,	55°	58°	56°
Loweſt,	37	40	39
Mean ſtat.	44	48	46

Very bluſtering and cold the greater part of the month. Vegetation very backward.

Diſeaſes in *Ipſwich*; pleuritic and peripneumonic fevers, bilious diſorders—Healthy in general.
Diſeaſes in *Salem*; pleuriſies, peripneumonics, coughs and colds, anginas, pulmonary phthiſos, hæmaptoes, worms, a few mild, putrid, ulcerated throats—Sickly for the ſeaſon.
Diſeaſes in *Beverly*; pleuriſies, peripneumonics, coughs, colds, anginas and hæmæptoes.

Days.

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	6	54		W.	Fair.
	1	60			
	9	65			
2	7	50		SW.	☉ſhine & clouds.
	1	62			
	9	60			
3	6	57		NW. W.	Fair.
	2	60			
	10	58			
4	7	50		NW. W.	Fair. Violent whirlwind from NW. to SE.
	1	55			
	11	51			
5	7	52		SW. E.	Fair.
	1	58			
	10	57			
6	6	53		S.	Fair; wind high.
	2	62			
	9	58			
7	6	55		ESE.	Clouds & ☉ſhine; high wind.
	2	58			
	10	50			
8	7	47		NE.	Very rainy.
	2	48			
	11	47			
9	6	45		N.	Exceſſive rain—a very great quantity fell in 48 hours.
	1	44			
	10	43			
10	6	43		NE.	☾ ſhine and clouds.
	1	44			
	9	45			
11	6	42		NE.	Fair.
	1	54			
	9	52			
12	8	49		NE.	Clouds, ſmall rain.
	1	50			
	9	52			
13	6	49	29,96	NW.	Clouds and ☉ ſhine.
	1	54	97		
	9	52	98		
14	6	48	30,08	NW. SW.	Fair.
	2	63	29,98		
	11	58	82		
15	6	58	77	W.	Fair.
	1	67	51		
	10	67	50		
16	6	60	71	SW. E.	Clouds and ☉ ſhine.
	1	63	69		
	10	62	76		
17	6	58	29,83	NW. E.	Rain, thunder and lightning.
	1	59	90		
	9	58	87		
18	6	56	90	NE.	☉ſhine and clouds.
	1	62	91		
	10	57	93		
19	6	54	30,0	SW.	Fair.
	2	65	29,86		
	9	62	86		
20	6	58	89	W.	☉ſhine; ſmall rain.
	1	67	54		
	10	69	46		
21	7	65	55	NW. NE.	Clouds and ☉ſhine.
	2	61	60		
	10	66	66		
22	7	59	92	NE. SW.	Clouds and ☉ſhine.
	2	60			
	10	56	30,21		
23	6	56	20	E. SE.	☉ſhine and clouds.
	1	62	16		
	9	57	20		
24	6	55	20	NE.	☉ſhine and clouds.
	1	61	15		
	10	53	10		
25	6	52	03	NE.	Very rainy.
	1	52	29,96		
	10	52	90		
26	6	51	90	W.	Pleaſant, fair.
	1	58	89		
	10	57	88		
27	6	57	91	SW.	Fair, a very fine day.
	1	66	86		
	10	65	90		
28	6	61	99	WSW.	Fair.
	1	77	65		
	10	71	80		
29	6	67	85	SW.	Clouds and ☉ſhine.
	1	81	55		
	10	71	65		
30	6	68	85	SW.	☉ſhine and clouds.
	1	74	67		
	10	68	80		
31	7	65	95	W.	Fair.
	1	65	30,05		
	10	63			

Therm.	A. M.	Noon.	P. M.
Higheſt,	68°	77°	71°
Loweſt,	42	44	43
Mean ſtat.	55	57	58

The month, in general, cold and wet. Vegetation very backward—graſs ſhort and thin—Indian corn planted much later than uſual.

Diſeaſes in *Ipſwich*; continued and remittent fevers, peripneumonies, rheumatiſms, palſies, worm caſes.
Diſeaſes in *Salem*; convulſions, vomitings and purgings, worms, pleuriſies, rheumatiſms, ſeveral mild dyſenteries, abſceſſes, coughs and hæmoptoes.
Diſeaſes in *Beverly*; pleuriſies, convulſions, worms, rheumatiſms.

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	7	61	30,01	E.	Fair.
	1	64	05		
	10	61	09		
2	6	61	05	N.	☉ shine and clouds.
	1	61	03		
	10	67	01		
3	6	58	05	NW.	Fair.
	2	67	29,96	E.	
	9	62	30		
4	6	57	12	N.	Fair.
	2	63	06	E.	
	10	59	18		
5	6	55	22	SSE.	Fair.
	2	64		S.	
	10	63			
6	6	59		NE.	Cloudy ; foggy.
	2	67	01		
	9	64	29,99		
7	7	60	90	ENE.	Cold N.E. ſtorm, very rainy.
	1	58	62	NE.	
	9	54	69		
8	6	51	60	NE.	Rainy.
	2	53	65		
	10	53	63		
9	6	53	61	W.	Miſty.
	1	61	55		
	10	62	58		
10	7	60	63	WNW.	☉ ſhine, clouds, thunder.
	1	69	54		
	9	65	64		
11	6	63	79	NW.	Fair.
	2	72	65		
	10	60	71		
12	6	63	81	SW.	Fair.
	1	75	59		
	9	73	53		
13	6	68	58	SW.	☉ ſhine and clouds.
	2	76	30		
	9	73			
14	6	69	50	SW.	☉ ſhine and clouds ; very ſultry.
	1	77	49		
	10	73	44		
15	6	70	51	N.	Small rain.
	2	67	51		
	10	66	56		
16	6	61	29,73	NW.	Fair.
	2	68	69		
	10	64	77		
17	7	65	79	W. SW.	☉ ſhine ; clouds ; ſmall rain.
	1	69	66		
	10	67	72		
18	6	65	73	S.	Cloudy ; rain.
	2	73	52		
	9	68	50		
19	6	66	41	WSW.	☉ ſhine ; clouds ; rain ; wind very high.
	1	71	27		
	10	66	61		
20	6	63	72	NW.	Fair, wind high ; Aurora Borealis.
	1	68	65		
	9	66	72		
21	6	61	88	W.	☉ ſhine and clouds ; at night, thunder and lightning ; rain.
	1	70	68		
	9	67			
22	6	60	84	NW. W.	Fair ; cool ; very windy.
	2	74			
	9	72			
23	6	64	57	NW. W.	Fair, windy.
	1	68			
	10	66			
24	6	62	80	NW. W.	Fair ; cool air ; very drying wind.
	1	70			
	10	66	74		
25	7	67	80	SW.	Fair ; clouds ; thunder & light. windy.
	1	74			
	10	69	81		
26	6	64		SW. NE.	☉ ſhine ; clouds ; ſmall rain.
	1	69			
	10	66	90		
27	7	63	82	NE.	Very rainy, wind high.
	2	63	80		
	9	60	85		
28	6	58	84	N.	Miſty.
	1	60	82		
	10	60	82		
29	6	60	82	SE. SW.	Miſty ; ſmall rain.
	2	69	70		
	10	69	72		
30	6	67	78	SW.	Fair ; a very fine day.
	2	77	62		
	10	69	81		

		A.M.	Noon.	P.M.
Therm.	Higheſt,	70°	77°	73°
	Loweſt,	51	53	53
	Mean ſtat.	62	68	62

		A.M.	Noon.	P. M.
Barom.		30, 22	30, 06	30, 18
		29, 41	29, 27	29, 44
		29, 78	29, 69	29, 76

Plentiful rains. Grain, in general, very fine. Indian corn low for the ſeaſon.—Very little thunder and lightning.

Diſeaſes in *Ipſwich* ; pleuriſies, peripneumonies, worms, abſceſſes, rheumatiſms.
Diſeaſes in *Salem* ; fevers, diarrhœas, vomitings with purgings, pleuriſies, ophthalmias, abſceſſes, rheumatiſms.
Diſeaſes in *Beverly*, much the ſame as in *Salem*.

Days.

Days.	H.	Ther	Barom.	Wind.	Weather.
1	7	72	29,76	NE.	Fair, a fine day.
	1	75	70	SW.	
	10	72	77		
2	6	69	84	W.	⊙ſhine ; P. M. a thunder ſhower.
	1	77	60		
	9	72	70		
3	6	68	80	NW. SW.	Fair.
	1	76	62		
	10	70	76		
4	6	69	82	NNW.	⊙ſhine and clouds ; briſk air.
	1	79	62		
	9	72	91		
5	7	68	30,00	NW. W.	Fair, ſultry.
	1	81	29,70		
	9	79	64		
6	6	75	85	N.	Smoky, cool breeze.
	1	74	85		
	9	69	90		
7	6	67	90	W.	Fair, ſmoky and ſultry.
	1	81	58		
	9	80	52		
8	6	76	59	WSW.	Hazy, very ſultry.
	1	86	28		
	10	82	19		
9	6	79	28	NW.	Fair.
	1	83	19		
	10	78	45		
10	6	74	72	NNE.	⊙ſhine and clouds ; cool air.
	10	66	95		
11	6	67	96	NNE.	Miſty morn; ⊙ſhine; cool air.
	2	69	97		
	10	66	30,05		
12	7	65	06	NNW NE.	⊙ſhine and clouds.
	2	70			
	10	66	00		
13	7	65	29,96	SSW.	Fair, very ſultry and dry.
	1	76	68		
	9	76	76		
14	6	70	82	W. SW.	Cloudy ; high wind.
	1	80	51		
	10	76	54		
15	6	76	50	SW. N.	Plentiful rain.
	1	75	24		
	10	74	59		
16	7	73	62	N.	Hazy.
	1	74	56		
	10	70	62		
17	7	70	29,60	NNW. N.	Miſt and rain.
	1	70	52		
	10	69	53		
18	7	70	56	W.	Fair, fine day.
	2	81	36		
	9	78	41		
19	7	69	67	NE.	Very rainy.
	1	68	66		
	9	65	71		
20	7	63	83	NW. SE.	Fair.
	2	70	72		
	9	77	85		
21	7	66	90	SE.	Fair.
	2	73	74		
	9	70	86		
22	7	66	95	WNW. S.	⊙ſhine and clouds.
	3	75	76		
	10	71	81		
23	6	68	84	W.	⊙ſhine and clouds.
	1	79	50		
	10	74	58		
24	6	70	61	SSW. S.	⊙ſhine and clouds; a ſmall ſprinkling of rain.
	2	81	26		
	10	73	40		
25	6	71	48	WNW	Cloudy, ſmoky air.
	1	75	45		
	10	73	53		
26	7	69	72	NW. W.	⊙ſhine and clouds.
	2	74	62		
	10	69	80		
27	6	69	90	N.	⊙ſhine and clouds.
	2	74	80		
	10	70	82		
28	6	67	88	W. S.	⊙ſhine and clouds.
	2	77	62		
	10	72	71		
29	7	68	78	SW.	Fair morn, cloudy afternoon.
	1	74	64		
	10	73	61		
30	6	72	60	W.	⊙ſhine&clouds. P.M. a plentiful ſhow. of ra. without thun. or ligh.
	1	80	44		
	10	75	46		
31	6	72	54	WNW W.	⊙ſhine and clouds.
	2	79	36		
	10	75	41		

	Therm. A.M.	Noon.	P.M.	Barom. A. M.	Noon.	P.M.
Hig.	79°	86°	82°	30,06	29,97	30,05
Low.	63	63	65	29,28	29,19	29,19
M. ſtat.	70	76	72	29,75	29,57	29,68

The firſt part of the month very hot and dry ; the hot weather continued with repeated rains and great dews. Engliſh grain, in general, very fine. Rye conſiderably injured by blaſt or mildew. Siberian wheat, which was ſowed in large quantities, almoſt totally ruined. Engliſh hay, plenty. Indian corn, and flax, very good. Scarce any thunder and lightning.

Diſeaſes in *Ipſwich* ; bilious complaints, anaſarcas, worm caſes, a few fevers—Very healthy.
Diſeaſes in *Salem* ; diarrhæas vomitings, dyſenteries, anaſarcas, ophthalmias.
Diſeaſes in *Beverly* ; alvine fluxes, remittent and putrid fevers.

Days

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	7	71	29,56	NNE.	Fair ; very ſmoky
	1	74	53	NE.	P. M.
	9	71	68		
2	7	70	70	NNE.	
	1	75	63	SE.	Fair, ſmoky.
	9	69	81		
3	7	65	90	E.	
	1	74	70	SE.	Foggy morn; fair ; at night rain.
	9	70	80		
4	7	70	80	SE.	
	1	77	65	SW.	☉ ſhine and clouds, ſultry.
	10	76	68		
5	7	72	84	WNW.	
	2	80	60	SW.	☉ ſhine and clouds.
	10	74	75		
6	6	74	74	NW.	
	1	82	51	SW.	Fair; very ſultry. A very curious Aur. Borealis at night.
	10	78	50		
7	6	74	57		
	2	82	36	SW.	Fair, ſtill very ſultry.
	10	79	85		
8	7	76	85	W.	Fair; ther. out doors,
	2	87	06	SW.	and in the ſun, merc.
	10	83	11		rang. at 108° at 5 P.M.
9	6	75	39	W.	
	2	80		SW.	Fair, briſk air.
	10	77	41		
10	7	71	65		Fair ; briſk wind ;
	1	72	62	NW.	cool ; a very ſudden
	9	69	90		change in the weather
11	7	64	30,05	N.	Wind briſk; ☉ ſhine
	1	67	02	NW.	and clouds.
	10	65	04		
12	7	61	38	E.	
	1	70		NE.	Cool, very ſmoky, clouds and ☉ ſhine.
	9	67	29,84		
13	7	69	46	SW.	Plentiful rain laſt
	1	71	43	W.	night & this morn ;
	10	69	52		clouds and ☉ ſhine.
14	6	65	73		
	1	60	72	NW.	☉ ſhine ; Aurora Borealis at night.
	10	64	90		
15	7	62	30,06		
	1	69	29,95	NNW.	Fair.
	9	67	30,07		
16	6	62	14		
	2	70	02	E. SE.	Foggy morn. ☉ ſhine
	10	65	10		
17	7	61	30,14	W.	
	2	68	00	SW.	Clouds and ☉ ſhine.
	9	67	00		
18	7	65	06	SW.	
	1	71	29,93	E.	☉ ſhine.
	10	67	30,00		
19	6	66	29,93		
	1	73	73	E.	☉ ſhine and clouds, rain afternoon.
	9	70	72		
20	7	69	50		Fair. Aur. Borealis
	2	75	44	NNW.	which continued
	9	70	70		thro' the night.
21	6	65	90		Very clear. Aurora
	2	74	70	WNW.	Borealis at night.
	9	71	72		
22	7	67	91		Fair. Aur. Borealis
	2	78	60	SW.	at night.
	10	72	74		
23	1	71	79		
	2	75	59	S.	Cloudy.
	10	73	62		
24	7	72	70		
	1	74	65	NNW.	Clouds and ☉ ſhine.
	10	70	84		
25	7	65	96		
	1	69	88	N.	Clouds and ☉ ſhine.
	9	65	95		
26	6	64	94		
	2	68	76	NNW.	☉ ſhine, clouds, rain at night.
	9	68	72		
27	6	78	62	WNW.	Foggy morn; ☉ ſhine;
	2	72	56	N.	ſhower at night.
	9	69	69		
28	6	62	86	NW.	
	1	73		SW.	Fair.
	9	68	74		
29	6	68	69		
	1	72		SW.	Clouds and ☉ ſhine.
	9	71	78		
30	7	69	30,07		
	1	72	29,80	SW.	Clouds and ☉ ſhine.
	10	71	77		
31	6	71	69		
	1	76	50	S.	Clouds ; plentiful ſhower.
	10	69	73		

	Therm. A.M.	Noon.	P.M.	Barom. A. M.	Noon.	P. M.
Hig.	76°	87°	83°	30,14	30,02	30,10
Low.	61	67	64	29,39	29,06	29,11
M. ſtat.	68	74	70	29,81	29,66	29,67

The air frequently much loaded with vapour. Not an inſtance of thunder and lightning. Salt graſs well grown. Garden eſculents very plenty.

Diſeaſes in *Ipſwich* ; diarrhœas dyſenteries, cardialgias, anginas—Healthy.
Diſeaſes in *Salem* ; vomitings and purgings, coughs, abſceſſes, fevers, choleras, abortions.
Diſeaſes in *Beverly* ; putrid fevers, diarrhœas, and dyſenteries.

Days.

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	6	63	29,93	WNW	Fair.
	2	69	82		
	9	66	90		
2	6	61	95	WNW. SW.	⊙ shine and clouds.
	1	68	72		
	10	68	64		
3	6	66	69	SW.	⊙ shine and clouds.
	1	76	44		
	9	72	45		
4	7	73	40	SW. NW.	⊙ shine ; cloudy ; small rain.
	2	81	25		
	9	72	62		
5	6	65	30,00	NW.	⊙ shine and clouds.
	1	70			
	9	63	27		
6	7	59	34	NW. W.	⊙ shine and clouds.
	1	67	15		
	9	65	10		
7	7	65	00	S. SW.	⊙ shine ; clouds ; rain at night with high wind.
	1	74	29,55		
	11	73	42		
8	7	70	58	WNW. NW.	Fair, windy.
	1	66	80		
	10	61	30,14		
9	8	58	14	NW.	Clear.
	2	64	20		
	9	62	28		
10	7	61	25	SW.	Fair.
	2	65	09		
	9	62	07		
11	7	62	29,92	SSW.	Clouds, rain.
	1	69	60		
	10	69	42		
12	7	63	69	SW.	Clouds, ⊙ shine.
	1	64	70		
	9	62	83		
13	7	60	93	W. E.	⊙ shine and clouds.
	2	66	82		
	10	62	92		
14	7	57	30,07	W.	Fair.
	1	69	29,92		
	10	65	30,05		
15	7	62	08	W.	Fair.
	1	74	29,76		
	10	69	80		

Days.	H.	Ther.	Barom.	Wind.	Weather.
16	7	63	29,77	W.	⊙ shine ; clouds ; windy ; rain at night.
	1	77	40		
	10	74	47		
17	6	66	82	NE. E.	⊙ shine and clouds.
	1	61	98		
	10	56	30,03		
18	7	58	29,93	E. W.	Very rainy, with high wind ; fair ; bright Au. Borealis at night.
	1	60	70		
	9	61	62		
19	6	58	72	W. SW.	Very clear.
	2	71	48		
	10	70	50		
20	6	67	63	NW. NNW.	Cloudy, a little rain.
	1	59	96		
	9	57	30,01		
21	7	55	04	NW. N.	Cloudy, rain, fair.
	1	54	29,99		
	10	51	30,07		
22	6	47	21	NW.	Very small frost in the morn. ⊙ shine and clouds ; windy.
	2	53	13		
	10	54	20		
23	7	50	25	W.	Fair.
	2	63	29,93		
	9	63	94		
24	6	57	30,10	WNW.	Fair.
	1	68	29,91		
	9	63	30,00		
25	6	59	01	SW.	Fair, fine day. Aur. Borealis at night.
	2	74	29,50		
	9	70	60		
26	6	64	67	WNW.	Fair, wind very high.
	1	62	71		
	9	57	94		
27	7	52	98	NW. WSW.	⊙ shine and clouds ; rain at night.
	1	58	81		
	10	57	66		
28	7	56	61	NW.	Fair, fine day.
	1	65	47		
	10	60	65		
29	7	55	74	NNW. NE.	⊙ shine and clouds.
	2	60	60		
	9	60	54		
30	7	58	59	WNW. NNW.	⊙ shine and clouds.
	2	58	74		
	9	55	30,03		

		A.M.	Noon.	P.M.
Therm.	Higheſt,	73°	77°	77°
	Loweſt,	47	53	51
	Mean ſtat.	60	66	63

		A.M.	Noon.	P.M.
Barom.	30, 34	30, 20	30, 20	
	29, 40	29, 25	29, 48	
	29, 90	29, 76	29, 84	

Very little rain. Fine weather for ripening Indian corn, and making ſalt hay, of which there are good crops. Garden-fruit plenty.

Diſeaſes in *Ipſwich* ; diarrhœas, dyſenteries, vomitings—Very healthy.
Diſeaſes in *Salem* ; dyſenteries, vomitings and purpings, choleras, abſceſſes, diarrhœas.
Diſeaſes in *Beverly* ; dyſenteries and diarrhœas, low fevers.

Days.	H.	Ther	Barom.	Wind.	Weather.
1	8	48	30,26	NNW.	Fair; a ſmall froſt this morning.
	2	54	20	SW.	
	10	52	20		
2	8	55	24	SE.	☉ ſhine and clouds; rain at night.
	2	61	29,98		
	9	60	92		
3	7	59	90	NW.	Foggy; fair; ſhower at 5 o'clock.
	1	62	83		
	9	58	30,00		
4	7	49	31	NW.	☉ ſhine and clouds.
	2	50	40		
	9	48	55		
5	7	40	68	W.	Fair. Water a little frozen this morn.
	1	49	45	SW.	
	10	52	30		
6	7	51	25	W.	Fair.
	2	60	29,98		
	9	55	30,06		
7	7	53	24	N.	Clouds and briſk wind.
	1	53	36		
	9	51	46		
8	8	43	58	NNW.	Fair. Small Aur. Borealis at night.
	2	53	38	SW.	
	10	48	28		
9	7	46	14	NW.	Fair.
	1	59	29,90		
	10	59	97		
10	7	52	30,06	W.	Fair.
	1	63	29,80	SW.	
	9	66	76		
11	7	61		W.	Fair.
	2	70		SW.	
	9	68	74		
12	8	63	80	SW.	Several ſhowers; ſome thun. & ligh.
	2	72	55		
	9	69	52		
13	7	63	49	SW. W.	☉ ſhine, clouds; rain P.M. with thun. and ligh. & high wind.
	2	69	17		
	9	67	20		
14	7	50	65	WNW.	Clouds and ☾ ſhine.
	1	54	72		
	9	59	82		
15	7	56	95	SW.	Fair; at night a very curious Aur. Bor.
	2	69	83		
	11	61	30,00		
16	7	60	00	SW.	☉ ſhine and clouds; very briſk wind.
	1	68	29,75		
	10	65	63		
17	7	57	29,80	WSW. W.	Rainy morning, fair.
	1	51	87		
	10	51	94		
18	7	46	30,01	NNE. NE.	Clouds; rain P.M. & thunder at night.
	1	52	29,96		
	10	51	30,00		
19	7	49	07	NW. NE.	Clouds and ☉ ſhine. Faint Au. Bor. at nig.
	2	51	03		
	11	46	13		
20	7	44	06	SW.	☉ ſhine & clouds; at night thun. & light.
	2	50	29,73		
	10	56	59		
21	7	54	57	WSW.	☉ ſhine and clouds, fine day.
	2	56	48		
	10	54	66		
22	8	51	95	NW.	☉ ſhine and clouds.
	1	53	96		
	10	50	30,19		
23	7	44	37	NW. E.	☉ ſhine and clouds.
	1	48	29		
	10	48	27		
24	7	49	06	SSW. WNW.	Clouds, rain aftern.
	1	57	29,67		
	10	54	61		
25	7	46	94	WNW.	Fair, fine day.
	2	49	94		
	10	45	30,14		
26	7	44	14	N. NE.	Clouds, rainy aftern.
	2	48	05		
	10	51	29,92		
27	7	49	30,10	NNW.	Clouds and ☉ ſhine.
	2	54	13		
	10	50	32		
28	7	46	46	N.	Clouds and ☉ ſhine.
	2	49	40		
	8	47	36		
29	7	45	22	NW. N.	Moderate rain.
	2	48	00		
	9	45	29,95		
30	8	42	92	W.	Fair, briſk wind.
	1	47	82		
	10	45	93		
31	7	40	30,02	SW.	Fair, fine day.
	2	57	29,87		
	9	52	94		

	Therm. A.M.	Noon.	P.M.	Barom. A.M.	Noon.	P.M.
Hig.	63°	72°	69°	30,68	30,45	30,55
Low.	40	47	45	29,49	29,17	29,20
M. ſtat.	50	56	54	30,01	29,93	29,97

More thunder and lightning in this month than during the whole ſummer. Several froſts; but many of the more hardy flowers ſtill remain uninjured. Garden eſculents plenty. Indian corn well ripened, and a good crop.

Diſeaſes in *Ipſwich*; a very few dyſenteries and diarrhœas, low fevers—Very healthy.
Diſeaſes in *Salem*; dyſenteries, vomitings and purgings, choleras, abſceſſes, diarrhœas, fevers, abortions.
Diſeaſes in *Beverly*; bilious cholics, ſome nervous fevers.

Days

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	8	48	30,04	N.	Cloudy ; very great quantity of rain at night ; wind high.
	2	51	29,93		
	10	53	66		
2	7	52	55	SW. E.	Miſty ; at night very rainy.
	1	54	6c		
	9	53	7c		
3	8	50	6c	N.	Very rainy, high wind.
	1	49	5[illegible]		
	10	48	6c		
4	7	45	63	NW.	Cloudy.
	1	46	62		
	9	46	7-		
5	7	41	73	NW.	Bluſtering & ſqually.
	1	40	7-		
	10	40	72		
6	7	39	7-	NW.	Cloudy & bluſtering.
	2	43	7		
	10	44	73		
7	9	46	72	NW.	Fair and very pleaſant.
	1	47	62		
	10	44	8-		
8	7	40	8	W. NW.	Very bluſtering and ſqually.
	1	43	7-		
	10	40	8c		
9	9	35	9-	NW.	Very chilly and bluſtering.
	1	36	9-		
	9	33	9-		
10	8	31	30,04	NW.	Fair, windy and chilly.
	1	36	02		
	10	37	1c		
11	8	33	12	NW.	Fair.
	1	35	10		
	9	37	03		
12	8	35		NE.	Stormy.
	1	40	29,83		
	10	40	79		
13	9	38	83	NNE.	Cloudy and very chilly.
	1	40	93		
	10	39			
14	8	38	30,7	NNE.	Cloudy.
	2	39	10		
	10	39	12		
15	8	37	17	NW.	Cloudy.
	2	40	10		
	11	37	30		

Days.	H.	Ther	Barom	Wind.	Weather.
16	8	35	30,4[illegible]	WNW.	Fair, Aur. Borealis at night.
	2	41	32		
	10	40	33		
17	8	37	33	SSE. NE.	⊙ſhine and clouds.
	1	40	2[illegible]		
	9	41	0[illegible]		
18	8	42	29,9c	N. NW.	Clouds and ⊙ſhine.
	1	42	92		
	9	42	30,03		
19	8	39	07	W. WSW.	Fair. Small Aurora Borealis at night.
	2	44	29,95		
	11	44	30,07		
20	8	35	2c	NW.	⊙ſhine and clouds.
	1	36	28		
	10	35	5c		
21	8	30	55	NW. NE.	Cloudy ; at night ſnow, which fell about 6 inches deep.
	2	35	36		
	9	35	21		
22	8	32	29,92	NW. WSW.	Clouds and ⊙ſhine.
	1	34	86		
	10	34	86		
23	8	32	30,16	W.	Fair.
	2	32	30		
	10	29	58		
24	9	23	84	NW.	Fair.
	2	29	80		
	10	29	80		
25	8	27	70	SW.	Cloudy ; very rainy night.
	1	33	48		
	9	40	07		
26	8	40	29,33	SSE. NW.	Cloudy, rain.
	2	45	40		
	10	35	30,02		
27	8	26	26	NW.	Fair, briſk wind.
	1	30	36		
	11	32	50		
28	8	26	62	N. NE.	Cloudy ; wind high ; at night very rainy.
	1	33	52		
	11	37	23		
29	8	43	29,50	E. NW.	Rainy & bluſtering.
	2	43	41		
	11	37	67		
30	8	34	96	W.	Fair and pleaſant.
	1	39	30,06		
	10	38	22		

		A. M.	Noon.	P.M.
Therm.	Higheſt,	52°	54°	53°
	Loweſt,	23	29	29
	Mean ſtat.	37	40	39

		A.M.	Noon.	P.M.
Barom.		30,84	30,80	30,80
		29,33	29,40	29,60
		30,03	29,99	30,01

The greater part of this month very windy, cold and ſtormy.

Diſeaſes in *Ipſwich* ; ſome low fevers, coughs and colds.
Diſeaſes in *Salem* ; pleuriſies, abſceſſes, anaſarcas, coughs, ophthalmias.
Diſeaſes in *Beverly* ; cholics, coughs, ſome febrile complaints—Healthy.

Days.	H.	Ther.	Barom.	Wind.	Weather.
1	8	36	30,30	NNW.	
	2	41	23	NE.	☉ shine and clouds.
	10	41	25		
2	8	38	20		
	1	40	14	NNW.	☉ shine and clouds, very bluſtering.
	10	39	25		
3	9	37	17		
	1	37	14	NNW.	Sprinkling of ſnow, and then rain.
	10	38	20		
4	8	34	33		
	2	41	28	WNW.	☉ ſhine and clouds.
	10	40	21		
5	8	40	29,73	NE.	
	2	41	41	NW.	Very ſevere ſtorm of rain, with high wind.
	11	38	62		
6	8	35	82		
	1	36	82	W.	☉ ſhine & clouds.
	11	38	80		
7	9	37	70	N.	
	1	38	64	NW.	A ſprinkling of ſnow laſt night.
	11	38	80		
8	8	33	30,03		
	2	34	03	W.	☉ ſhine & clouds.
	11	37	23		
9	8	31	26		
	1	34	17	W.	☉ ſhine and clouds; ſnow at night.
	10	36	04		
10	8	36	29,46	NNE.	
	1	35	30	W.	Snow, rain & hail.
	10	31	55		
11	8	27	72		
	2	32	68	WSW.	Fair. Aurora Borealis at night.
	11	30	74		
12	8	27	68		
	2	30	60	SW.	☉ ſhine and clouds.
	11	31	70		
13	8	29	72		
	2	34	70	SW.	Fair and pleaſant.
	9	37	80		
14	8	31	95		
	1	34	91	SW.	Fair, pleaſant.
	10	33	96		
15	8	27	98		
	2	31	90	W.	Fair.
	10	30	30,00		
16	8	22	18		
	2	26		WNW.	
	10	29	11	N.	Clouds, ſprinkling of ſnow at night.
17	8	21	30,30		
	2	26		NW.	☉ ſhine and clouds.
	9	31	40		
18	8	29	47	NNW.	
	2	30	67	NW.	☉ ſhine and clouds.
	9	27	70		
19	9	20	74	W.	
	2	31	57	S.	Clouds and ☉ ſhine.
	10	33	47		
20	8	37	29,81	SE.	Fog and miſt.
	1	41	50	NW.	Moſt of the ſnow gone at night.
	11	40	80		
21	9	31	30,35		
	1	30	50	NW.	Fair.
	11	28	72		
22	8	24	70	W.	
	1	27	60	SW.	Fair.
	10	30	50		
23	8	28	48		
	1	35	41	NW.	Fair.
	9	36	52		
24	8	28	69		
	2	27	66	N.	Cloudy & bluſtering.
	9	24	62		
25	8	22	70		
	2	26	69	NW.	Fair.
	11	24	78		
26	8	21	78	WNW.	
	1	26	64	W.	Fair.
	11	32	45		
27	9	30	30		
	1	32	20	SW.	Cloudy and miſty.
	10	36	04		
28	8	35	29,80	N.	
	2	38	24	NE.	Very rainy.
	11	37	60		
29	8	35	82	S.	
	2	38	40	W.	Small quantity of ſnow.
	10	38	40		
30	8	34	30,20		
	1	37	26	WNW.	Fair and pleaſant.
	10	35	44		
31	8	32	40	NNW.	
	2	36	10	SE.	Snow and rain; foggy at night.
	11	38	29,75		

	Therm. A.M.	Therm. Noon.	Therm. P.M.	Barom. A. M.	Barom. Noon.	Barom. P. M.
Hig.	40°	41°	40°	30,78	30,69	30,78
Low.	20	26	24	29,46	29,24	29,40
M. ſtat.	30	34	34	30,15	30,01	30,11

The ground covered with a ſmall quantity of ſnow during the month; but not more than three or four inches deep at any one time.

Diſeaſes in *Ipſwich*; colds, abſceſſes, coughs, pulmonary conſumptions.
Diſeaſes in *Salem*; pleuriſies, catarrhal fevers, anginas, abſceſſes, coughs, cholics, anaſarcas.
Diſeaſes in *Beverly*; chronic rheumatiſms, bilious cholics.

Thermometer

1781.	Thermometer. Greateſt Height.	Leaſt Height.	Mean Height.	Barometer. Greateſt Height.	Leaſt Height.	Mean Height.
January,	49	18	34			
February,	45	14	32			
March,	50	24	38			
April,	58	37	46			
May,	77	42	57			
June,	77	51	64	30, 22	29, 27	29, 74
July,	86	63	73	30, 06	29, 19	29, 67
Auguſt,	87	61	71	30, 15	29, 06	29, 74
September,	77	47	69	30, 34	29, 25	29, 83
October,	72	40	53	30, 68	29, 17	29, 97
November,	54	23	39	30, 84	29, 33	30, 01
December,	41	20	33	30, 78	29, 24	30, 09
Whole Year,	87	14	51			

1782.

JANUARY.

	Therm. A. M.	Noon.	P. M.	Barom. A. M.	Noon.	P. M.
Higheſt,	44	45	44	30, 88	30, 87	30, 83
Loweſt,	6	10	7	29, 92	29, 90	29, 92
Mean ſtat.	26	28	25	30, 37	30, 36	30, 39

The weather variable---frequent ſnows and rains. Predominant winds from W. to N. E. The mercury in the barometer ranged exceeding high. On the 23d, a ſevere ſnow-ſtorm, in which the ſnow fell twenty inches deep---wind N. E. The two laſt days intenſely cold. Forty-four inches of ſnow fell during the month---the ground conſtantly covered. Fourteen days of falling weather.

Greateſt degree of heat on the 4th, at 1, P. M.---barom. at 30, 25---wind W.---fair. Greateſt deg. of cold on the 31ſt, at 8, A. M.---barom. at 30, 87---wind S. W.---fair. Barom. higheſt on the 2d, at 8, A. M.---therm. 24°---wind N.---fair: loweſt on the 25th, at 2, P. M.---therm. at 22°---wind S.S.W. ---fair.

In

In the evening of the 2d, a faint Aurora Borealis----wind S. W.---ſnowed the preceding day in the morn.---the following rainy. Another in the night of the 9th---wind N. W.---preceding day miſty---ſnowed on the four following days.

Diſeaſes in *Ipſwich*; rheumatiſms, palſies, coughs, ophthalmias: In *Salem*; cholics, catarrhal fevers, ophthalmias, coughs and defluctionary diſorders: In *Beverly*; worms, peripneumonies and other pulmonic diſorders.

FEBRUARY.

	Therm.			Barom.		
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.
Higheſt,	37	40	39	30, 99	30, 93	30, 83
Loweſt,	6	15	18	29, 84	29, 62	29, 90
Mean ſtat.	27	30	30	30, 38	30, 32	30, 33

Bluſtering, ſtormy and cold----few pleaſant days----ground covered with a conſiderable depth of ſnow. Predominant winds from W. to N. E. Eight days of falling weather. Fifteen inches of ſnow fell during the month.

Greateſt deg. of heat on the 22d, at 2, P. M.----barom. at the loweſt---wind S. W.---cloudy. Greateſt deg. of cold on the 1ſt, at 8, A. M.---barom. higheſt---wind N. W.---fair.

An Aurora Borealis in the evening of the 6th---wind N.---the preceding and following days fair; but on the third and fourth days after, it ſnowed.

Diſeaſes in *Ipſwich*; worm caſes, pleuriſies—Very healthy: In *Salem*; cholics, anginas, pleuriſies, rheumatiſms, ſcrophulas: In *Beverly*; pulmonic diſeaſes, ſmall pox.

MARCH.

	Therm.			Barom.		
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.
Higheſt,	43	50	44	30, 68	30, 70	30, 60
Loweſt.	21	31	33	29, 66	29, 63	29, 43
Mean ſtat.	35	40	37	30, 09	29, 99	30, 09

The

The weather, in general, mild. Predominant winds from S. W. to N. Small quantity of ſnow with rain fell on the 11th. The ground moſtly bare by the middle of the month. The latter part of the month windy. Six rainy days, in which a large quantity of rain fell; but no ſevere ſtorm. Grain appears to have been very little injured by the winter.

Greateſt deg. of heat on the 14th, at 1, P. M.---barom. 30, 02---wind S. W.---ſunſhine and clouds. Greateſt deg. of cold on the 4th, at 7, A. M.---barom. at 30, 58---wind N. W.---fair. Barom. higheſt on the 8th, at 2, P. M.---therm. at 38° ---wind N. E.---cloudy: loweſt on the 27th, at 9, P. M.---therm. at 42°---wind high at S. W.---cloudy.

A faint Aurora Borealis on the 9th at night---wind W.---preceding day fair---on the following, rain and ſnow. On the 14th, a bright parhelion, ſouth of the ſun, at 7, A. M. In the morning of the 18th, very ſevere thunder---two houſes, a barn and many trees ſtruck with the lightning in this town.

Diſeaſes in *Ipſwich*; cholera morbus, pulmonary conſumptions, rheumatiſms, colds, coughs, ophthalmias, ſcrophulas: In *Salem*; ophthalmias, ſcrophulas, bad coughs: In *Beverly*; remitting fevers.

APRIL.

	Therm.			Barom.		
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.
Higheſt,	56	68	62	30, 53	30, 48	30, 50
Loweſt,	39	43	41	29, 65	29, 67	29, 66
Mean ſtat.	46	52	49	29, 98	30, 01	30, 05

The firſt part of the month, warm and pleaſant. Vegetation advanced with great rapidity. The wind frequently between E. and S. and between S. and W.---though it prevailed moſtly between W. and N. But from the 16th to the

end

end of the month, the wind was, for the moſt part, northerly, very high, and frequent cold ſtorms of rain. Twelve days on which rain fell. From the 19th to the 25th, wind conſtantly N. E. and more or leſs rain fell every day.

Greateſt deg. of heat on the 15th, at 2, P. M.---barom. at 29, 84---wind S.---fair. Greateſt deg. of cold on the 11th, at 6, A. M.----barom. 30, 59----wind N. N. E.----cloudy. Barom. higheſt on the 26th, at 6, A. M.----therm. 43°----wind N. N. W.---cloudy: loweſt on the 4th, at 6, A. M.---therm. 51°----wind very high at W. N. W.----clouds and ſunſhine.

The Aurora Borealis appeared in the night of the 2d,---wind W.---and of the 4th,---wind W. N. W.---the preceding and following days fair.—Wind very high on the 5th and 6th. Another Aurora in the night of the 14th,---wind W. S. W.---preceding and following days fair.

Diſeaſes in *Ipſwich*; putrid and ſlow fevers, dyſenteries, cholics—Sickly: In *Salem*; chin coughs, cholics, ophthalmias, pleuriſies, peripneumonies, rheumatiſms, catarrhal fevers—Very ſickly: In *Beverly*; diſorders in the firſt paſſages, tumors.

MAY.

	Therm.			Barom.		
	A.M.	Noon.	P.M.	A.M.	Noon.	P.M.
Higheſt,	61	68	63	30, 32	30, 30	30, 28
Loweſt,	47	47	47	29, 28	29, 34	29, 60
Mean ſtat.	54	59	56	29, 91	29, 90	29, 95

The month very cool and wet---no froſt. Prevailing winds from W. to N. and N. E. Vegetation backward. Peach, and ſome other fruit-trees, injured by the winter. Fourteen days on which rain fell.

Greateſt

Greateſt deg. of heat on the 12th, at 1, P. M.---barom. 29, 65---wind N.W.---fair. Greateſt deg. of cold on the 4th---the mercury ranged at the ſame height morning, noon and night ---barom. roſe from 29, 61 to 29, 80---wind N.---clouds and rain. The night was very remarkably light, although it was cloudy and no moon; probably occaſioned by a very bright Aurora Borealis. Barom. higheſt on the 17th, at 1, P. M.---therm. 53°---wind N.E.---fair: loweſt on the 10th, at 6, A.M. ---therm. 58°---wind N. W.---fair.

An Aurora Borealis in the night of the 5th---wind N.N.W. —of the 6th---wind S. W.—of the 9th---wind S. S. W.— and of the 22d---wind S. W. Rain on the preceding and following days of the four firſt; fair weather preceding and following the laſt of them. Thunder and lightning on the 13th.

Diſeaſes in *Ipſwich*; convulſions, bilious cholics, putrid fevers, worms: In *Salem*; chin coughs, cholics, catarrhal fevers, convulſions—Sickly: In *Beverly*; pulmonic fevers, worms.

JUNE.

	Therm.			Barom.		
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.
Higheſt,	80	88	81	30, 43	30, 31	30, 39
Loweſt,	54	62	56	29, 27	29, 10	29, 23
Mean ſtat.	66	75	70	29, 79	29, 62	29, 76

Predominant winds from S. W. to N. W. Frequent mild ſhowers—very little thunder and lightning—only one whole day cloudy during the month. From the 15th to the 24th, extremely ſultry. The weather exceedingly favourable to vegetation. All kinds of corn, graſs and garden-productions, promiſe plentiful crops. Little injury done by inſects and rep-

tiles, except canker-worms on apple-trees; by which many orchards, for years paſt, have not only been deprived of fruit, but the trees almoſt deſtroyed.*

Greateſt deg. of heat on the 22d, at 1, P. M.---barom. 29, 10---wind W. S. W.---ſunſhine and clouds. Greateſt deg. of cold on the 8th, at 6, A. M.---barom. 30, 36---wind high at S. W.---fair. Barom. higheſt on the 9th, at 7, A. M.---therm. 50°---wind S. W.---fair: loweſt on the 23d, at 1, P. M.---therm. 71°---wind high at S. S. E.---heavy ſhower of rain.

Northern lights in the evenings of the 5th and 6th---wind W. N. W.---on the 3d and 4th, ſhowers of rain---the ſix following days fair. Diſtant lightning on the 6th---thunder and lightning on the 19th, 22d and 23d.

Diſeaſes in *Ipſwich*; ſlow fevers, worms, rheumatiſms, pleuriſies, pulmonary conſumptions: In *Salem*; chin coughs, and

* Among the many experiments that have been made for deſtroying canker-worms, tarring round the body of the trees ſeems to have been the moſt effectual: but if the tar be applied on the bark, it will injure the trees, eſpecially if they are young, nearly as much as the worms. This injury, however, may be entirely prevented, and the worms more effectually deſtroyed, by putting, next the bark, a clay morter well mixed with hair or chopped ſtraw, about an inch thick; upon the morter a ſtrip of canvaſs or birch bark: then take a large rope of ſwingled tow, twiſted by hand, and make two or three turns round the tree, below and cloſe to the canvaſs, drawing it tight upon the moiſt morter to prevent the tar from running down. Let the canvaſs be tarred every day, juſt before ſunſet, from the time the ſnow is gone under the trees, in the ſpring, until no worms are found on the tar. When the worms have done paſſing, the whole is to be removed from the trees. By this method much leſs tar is uſed; and it has been found, by repeated experiments, that the worms will be deſtroyed in two years without the leaſt injury to the trees. But compleat ſucceſs is not to be expected, unleſs the trees are tarred as ſoon as the ſnow, if it lays late in the ſpring, is melted away about their bodies, and faithfully continued, every day, until the worms have done paſſing.

and vomitings and purgings among children: In *Beverly*; chronic diſorders.

JULY.

	Therm.			Barom.		
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.
Higheſt,	79	84	80	30, 05	29, 81	30, 00
Loweſt,	61	68	60	29, 21	29, 06	29, 15
Mean ſtat.	69	71	66	29, 64	29, 42	29, 57

The whole of the month, eſpecially the latter part, very dry. A few ſmall ſhowers of rain. Frequent heavy fogs, and cool nights. Winds principally from W. to N. Siberian wheat entirely deſtroyed by a blaſt or mildew---rye in general ſhared the ſame fate—oats and barley greatly injured----Indian corn, and the later garden eſculents ſuffered from the drought and cold ---plentiful crops of Engliſh hay.

Greateſt deg. of heat on the 15th, at 2, P. M.----barom. loweſt---wind S. W.---ſunſhine and clouds. Greateſt deg. of cold on the 20th, at 9, P. M.---barom. 29, 61---wind S. W. ---fair. Barom. higheſt on the 20th, at 8, A. M.----therm. 68°---wind S. W.---cloudy.

Northern light in the evening of the 9th---wind S. W.--- the preceding night rain----the following days fair and cool: alſo, in the evening of the 20th---wind S. W. --preceding days fair---the third day after, rain. Thunder and lightning on the 24th.

Diſeaſes in *Ipſwich*; diarrhæas, pleuritic fevers: In *Salem*; putrid fevers, cholics, vomiting blood, chin cough, choleras, vomiting and purging among children: In *Beverly*; worm fevers.

AUGUST.

	Therm.			Barom.		
	A.M.	Noon.	P.M.	A. M.	Noon.	P. M.
Higheſt,	79	85	76	30, 30	30, 12	30, 22
Loweſt,	55	66	61	29, 26	29, 20	29, 37
Mean ſtat.	67	73	69	29, 82	29, 65	29, 85

Very dry---ſmall ſhowers of rain on the 3d, 10th, 13th, 19th and 26th. Foggy nights and mornings from the 18th to the 27th. Winds very variable---prevailed moſtly from W. to N. Indian corn and garden vegetables ſuffered by the drought. Paſtures exceedingly dried up. Salt graſs very good.

Greateſt deg. of heat on the 9th, at 2, P. M.----barom. loweſt---wind S. W.---fair. Greateſt deg. of cold on the 13th, at 7, A. M.---barom. higheſt---wind W.---fair.

Faint northern lights in the evenings of the 26th and 28th, ---wind N. W.----fair and cool after them. On the 9th, a few claps of thunder, with lightning.

Diſeaſes in *Ipſwich*; dyſenteries, ſlow fevers, worm caſes: In *Salem*; cholera morbus, chin coughs, mild dyſenteries, vomiting and purging among children: In *Beverly*; cholera morbus.

SEPTEMBER.

	Therm.			Barom.			
	A. M.	Noon.	P.M.	A. M.	Noon.	P. M.	
Higheſt,	74	86	78	30, 40	30, 22	30, 25	Rain.
Loweſt.	47	56	51	29, 51	28, 97	29, 56	Inch.
Mean ſtat.	59	67	59	30, 02	29, 80	29, 95	0,703

Winds variable, and frequently very high---prevailed moſtly between S. and N. W. The drought extremely ſevere---only four very ſmall ſhowers during the month. The dews were commonly large, and preſerved the verdure of ſome kinds of vegetables. In the latter part of the month, the atmoſphere conſtantly

conſtantly loaded with a ſmoky vapour. The ground, in many places, ſaid to be dried to a mere duſt, as low as four or five feet from the ſurface. The withered ſtate of many large groves of trees, exhibit a melancholy evidence of the extreme dryneſs of the ground. Fields of Indian corn as white as they uſually are the laſt of October, with their ears hanging down, and huſks ſeparated. All kinds of garden eſculents greatly ſuffered, and many of them periſhed. Horſes and cattle fed at barns before the middle of the month.

Greateſt deg. of heat on the 5th, at 3, P.M.---barom. loweſt ----wind extremely high at S. W. The mercury fell three-fourths of an inch from 7 in the morning to 3 in the afternoon, and, as the wind abated, roſe as much in about ſix hours. Greateſt deg. of cold on the 27th, at 7, A. M.---barom. 30, 10---wind W. N. W.---fair. Barom. higheſt on the 14th, at 6, A. M.---therm. 54°---wind W.---ſmoky air.

Frequent northern lights, viz. in the evening of the 5th, ſmall---wind W.—the 6th; wind E.---rain the next day:—the 12th, very bright; wind W.----cool the next day:—the 13th; wind N. N. W.---rain the next day:—the 15th; wind N. W.---fair after it:—the 22d; wind S. W.---fair after it:—the 30th; wind N. W.---ſprinkling of rain next day.

Diſeaſes in *Ipſwich*; continued fevers, worms: In *Salem*; cholera morbus, chin coughs, mild dyſenteries, vomiting and purging among children: In *Beverly*; ſlow fevers, cholera morbus.

OCTOBER.

	Therm:			Barom:			
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.	
Higheſt,	59	64	62	30, 52	30, 51	30, 50	Rain.
Loweſt,	42	45	44	29, 62	29, 59	29, 60	Inch.
Mean ſtat.	49	53	51	30, 08	29, 97	30, 08	3,133

Frequent

Frequent mild rains. Predominant winds from S. W. to N. W. In the night of the 5th, water froze abroad. On the 17th and 18th, wind exceſſive high, with rain and hail. Fifteen days on which rain fell.

Greateſt deg. of heat on the 3d, at 1, P. M.---barom. 29, 75---wind W.---fair. Greateſt deg. of cold on the 5th, at 7, A. M.---wind E. N. E.---cloudy. Barom. higheſt on the 28th, at 7, A. M.---therm. 43°---wind N. W.---fair: loweſt on the 6th, at 1, P. M.---therm. 63°---wind N. W.---fair.

Frequent northern lights in the firſt part of the month---wind between S. W. and N. W.---rain within two or three days after each of them.

Diſeaſes in *Ipſwich*; chin coughs, continued and putrid fevers, worms: In *Salem*; dyſenteries, rheumatiſms, ſlow fevers, mumps: In *Beverly*; ſlow fevers.

NOVEMBER.

	Therm.			Barom.			
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.	
Higheſt,	51	55	54	30, 88	30, 85	30, 76	Rain.
Loweſt,	22	24	27	29, 51	29, 55	29, 50	Inch.
Mean ſtat.	37	41	41	30, 15	30, 12	30, 09	4, 533

Predominant winds from S. W. to N. W. Frequently cloudy. A ſtorm of ſnow on the 21ſt---wind N.---ſnow fell four and an half inches deep. The ground very little froze, and the ſnow melted in a few days. Nine days of falling weather.

Greateſt deg. of heat on the 7th, at 2, P.M.---therm. loweſt---wind S. W.---cloudy. Greateſt deg. of cold on the 29th, at 8, A.M.---barom. 30,60---wind W.---fair. Barom. higheſt on the 10th, at 8, A. M.---therm. 33°---wind N.---fair.

The

The Aurora Borealis appeared only in the evening of the 26th---wind W. N. W.---cold and windy after it.

Diſeaſes in *Ipſwich*; rheumatiſms, cholics: In *Salem*; ſlow fevers, rheumatiſms, eryſipelas, mumps, cholics: In *Beverly*; hæmoptoes, worms.

DECEMBER.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A. M.	Noon.	P. M.	
Higheſt,	50	53	50	30,75	30,71	30,83	Rain.
Loweſt,	17	21	14	29,37	29,50	29,56	Inch.
Mean ſtat.	35	37	34	30,15	30,09	30,15	3,601

The weather, in general, pleaſant; the air, on many days, as pleaſant as in April or May. Prevailing winds from S. W. to N. W. The ground bare and very little froze. Snow fell three inches deep on the 30th and 31ſt. Seven days of falling weather.

Greateſt deg. of heat on the 4th, at 2, P. M.---barom. 29, 92---wind S. W.---fair. Greateſt deg. of cold on the 15th, at 10, P. M.----barom. 30,73----wind N. N. W.----fair. Barom. higheſt on the 8th, at 10, P. M.----therm. 37°---wind W. N. W.---fair: loweſt on the 31ſt, at 10, P. M.---therm. 37°---wind N. W.---ſnowed.

Diſeaſes in *Ipſwich*; pulmonary conſumptions, hæmoptoes—Very healthy: In *Salem*; ſlow fevers, pleuriſies, rheumatiſms, bad coughs, putrid ſore throats: In *Beverly*; cholics, tooth-ach, coughs, &c.

Thermometer.

1782.	Thermometer. Greateſt Height.	Leaſt Height.	Mean Height.	Barometer. Greateſt Height.	Leaſt Height.	Mean Height.	Rain. Inches.
January,	45	6	26	30, 88	29, 90	30, 37	
February,	40	6	29	30, 99	29, 62	30, 34	
March,	50	21	37	30, 70	29, 43	30, 06	
April,	68	39	49	30, 53	29, 65	30, 01	
May,	68	47	56	30, 32	29, 28	29, 92	
June,	88	54	70	30, 43	29, 10	29, 72	
July,	84	60	69	30, 05	29, 06	29, 54	
Auguſt,	85	55	70	30, 30	29, 20	29, 77	
September,	86	47	62	30, 40	28, 97	29, 92	0,703
October,	64	42	51	30, 52	29, 59	30, 04	3,133
November,	55	22	40	30, 88	29, 50	30, 12	4,533
December,	53	17	35	30, 83	29, 37	30, 13	3,601
Whole Year,	88	6	50	30, 99	28, 97	29, 99	11,970 Since Aug.

1783.

JANUARY.

	Therm. A.M.	Noon.	P.M.	Barom. A. M.	Noon.	P. M.	Rain.
Higheſt,	42	46	45	30, 90	30, 86	30, 82	Inch.
Loweſt,	7	12	14	29, 48	29, 41	29, 42	4,033
Mean ſtat.	28	32	32	30, 10	30, 05	30, 06	

The ſtate of the atmoſphere variable, and our feelings very diſagreeably affected by the conſtant viciſſitudes of a mild and extreme cold air. The wind frequently between N. and N.E. and between S. W. and W. but prevailed moſtly between W. and N. W. On the 8th, at 9, P. M. the therm. abroad, 5° below 0, and, at 8 the next morning, 10° below 0. The ground covered with ſnow from the 5th to the end of the month. A ſevere ſnow-ſtorm on the 10th, with N. E. wind. Eleven days of falling weather. Snow fell twenty-three inches in the month.

Greateſt deg. of heat on the 25th, at 1, P. M.---barom. 29, 68----wind W. S. W.----fair. Greateſt deg. of cold on the 9th,

9th, at 8, A. M.---barom. higheſt----wind W. N. W.---fair. Barom. loweſt on the 19th, at 1, P. M.---therm. 44°---wind S. W.---fair.

An Aurora Borealis in the night of the 26th---wind N. W. preceding days fair---the four following, cold, with ſprinklings of ſnow.

Diſeaſes in *Ipſwich*; pleuritic fevers, anginas, coughs, tooth-achs: In *Salem*; bad coughs, anginas, tooth-achs, rheumatiſms, pleuritic fevers: In *Beverly*; remitting fevers, and nervous.

FEBRUARY.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A. M.	Noon.	P. M.	
Higheſt,	51	53	52	30, 84	30, 61	30, 83	Rain.
Loweſt,	1	12	10	29, 76	29, 64	29, 73	Inch.
Mean ſtat.	34	37	37	30, 28	30, 19	30, 26	4,907.

The weather more capricious than the laſt month. The varieties of cold, warm, fair, cloudy, rainy, ſnowy and foggy weather were experienced every few days through the month. on the 3d, at 8, A. M. the therm. out doors, ſtood at 8° below 0. Farmers plowed on the 21ſt. Winds variable, but moſt prevalent from S. W. to W. Ground covered with ſnow until the 18th. A very denſe ſmoke-like fog in the evening of the 10th, attended with a ſingular kind of ſcent, ſomewhat reſembling that of burned leaves. Thirteen days of cloudy and falling weather. Ten inches of ſnow fell during the month.

Greateſt deg. of heat on the 19th, at 2, P. M.----barom. loweſt---wind S. S. W.---miſty. Greateſt deg. of cold on the 3d, at 7, A. M.---barom. 30,37----wind W. N. W.----fair. Barom. higheſt on the 9th, at 7, A. M.---therm. 27°---wind N. E.---cloudy.

A faint Aurora Borealis in the evening of the 2d----wind W. N. W.—and of the 27th---wind W.---fair for ſeveral days after them.

Diſeaſes in *Ipſwich*; coughs, bilious cholics, rheumatiſms —Healthy: In *Salem*; mild, continued and rheumatic fevers, bad coughs: In *Beverly*; inflammations of the eyes, tumors.

MARCH.

	Therm.			Barom.			
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.	
Higheſt,	50	56	55	30,73	30,41	30,53	Rain.
Loweſt,	16	24	21	29,30	29,30	29,28	Inch.
Mean ſtat.	33	43	40	30,12	30,02	30,05	1,733

Several ſmall ſnows, which ſoon melted; the air mild. Predominant winds from S. S. W. to N. W. The ground bare the greater part of the month, and very little froze. Six days of falling weather.

Greateſt deg. of heat on the 29th, at 1, P. M.---barom. 29, 72---wind S. E.---miſty. Greateſt deg. of cold on the 11th, at 7, A. M.----barom. 30, 50----wind W. N. W.----fair. Barom. higheſt on the 13th, at 7, A. M.---therm. 25°---wind N. N. W.---fair: loweſt on the 8th, at 11, P. M.---therm. 43°---wind very high at N.N.W.---fair.

A ſmall Aurora Borealis in the evenings of the 2d and 26th ---wind W.N.W.—the following days fair. In the evening of the 29th, the heavens were illuminated with a very bright and ſingular northern light. At $8^{h.}$ 4′, when I firſt ſaw it, the northern heavens, as far as E.N.E. and W.S.W. were interſperſed with numerous Auroral clouds, and very bright ſpots, ſomewhat reſembling lighted torches. From the luminous ſpots converging corruſcations ſhot up, with a quick and tremulous motion, towards the zenith. The luminous clouds were

were continually changing their form and ſituation, moving with a waving or flaſhing motion. At the ſame time, there was a bright glade or zone of light, compoſed of very fine ſtriæ, S. of the zenith; which extended acroſs the hemiſphere, in the S. E. and S. W. points, within 25° of the horizon. The ſouthern limb of the zone extended almoſt as far as the cloudy ſtar in *Cancer*, which was nearly on the meridian. At 8h. 15', the ſtriæ in the zone, and ſtriated corruſcations from every other direction, approached towards a common center in the neck of *Leo major*, and formed a kind of vortex, which ſoon became two ſegments of a circle, and then changed into detached, flaſhing clouds. At 50' after 8h., a very extenſive and denſe Auroral cloud was formed in the W. and N. W. with numerous ſtriæ curiouſly turned around its heads and indentations. At half after 9h., corruſcations from the N. extended beyond the zenith. At 10h., the light appeared only in the N. and greatly diminiſhed. There appeared to be an extremely rare fluid almoſt continually flaſhing beneath the ſtriated vapour, in various directions. The wind at W. and very ſmall till 10h., when it breezed up freſh at N. W. At 10h., therm. 53°, barom. 29, 72. Five preceding and ſeven following days fair.* Faint

 northern

* By a letter from the Reverend Dr. *Stiles*, Preſident of *Yale-College*, which I received ſoon after, it appears, that the extent of this northern light near the zenith, and the meeting of the corruſcations, were obſerved at *New-Haven*, (computed diſtance 180 miles, S. W.) to be as far S. and nearly in the ſame points in the heavens, as they were here. He ſays, that "At 8h 10', the Auroral corruſcations "from the eaſtern, weſtern and northern heavens, concurred in a center 12° S. of "the zenith, in a line from the two ſtars (*Caſtor* and *Polux*) in the head of *Gemini* "to *Cor Leonis*. Had it been at the ſummit of the atmoſphere, it muſt have ap-"peared 45° or 50° S. of the zenith, at the diſtance of fifty miles N. of *New-Haven*; "and yet the Reverend Mr. *Atwater*, of *Weſtford*, fifty miles N. obſerved it at 8h "10', very nearly in the ſame place, and not S. of *Cor Leonis*.

northern lights in ſeveral of the preceding and following nights. Two bright parhelia on the 8th, in the morning.

Diſeaſes in *Ipſwich*; coughs, pulmonic complaints—Healthy: In *Salem*; inflammatory, pleuritic and rheumatic fevers, abſceſſes: In *Beverly*; pulmonic fevers, rheumatiſms, worms, &c.

APRIL.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A.M.	Noon.	P.M.	
Higheſt,	60	80	71	30,70	30,52	30,57	Rain.
Loweſt,	38	40	40	29,30	29,32	29,20	Inch.
Mean ſtat.	47	54	50	30,10	30,00	30,07	1,007

The weather warm and pleaſant. Winds principally from S. to W. N. W. The air frequently ſmoky. The 17th, exceſſive warm for this month; the therm. ranged at 82°, within doors, at 5, P. M. The ground very dry, which ſeems to have retarded vegetation. Five days on which rain fell.

Greateſt deg. of heat on the 17th, at 2, P. M.---barom. 29, 49---wind S.W.---fair. Greateſt deg. of cold on the 13th, at 7, A. M.---barom. 30,44---wind N. N. W.---fair. Barom. higheſt on the 24th, at 6, A. M.---therm. 48°---wind N.---cloudy: loweſt on the 12th, at 11, P. M.----therm. 42°----wind N. W.---rainy.

Early in the evening of the 7th, there appeared a bright Aurora Borealis, forming an arc about 20° above the horizon in the N. At 20′ after 8h., the brightneſs greatly increaſed; and lucid ſpots, reſembling torches, at different heights above the arc, emitted numerous corruſcations. At 8h. 46′, a very bright Auroral zone was formed from E. to W. N. W. paſſing the meridian near the zenith. Its motion was viſible and uniform towards the S. preſerving its poſition as to the E. and W. points.

points. It appeared to be a luminous vapour of conſiderable denſity, ſomewhat broken near the meridian; but the edges were ſo well defined that its breadth was eaſily meaſured with a ſextant. The mean of the breadth, taken at ſeveral times and in different parts, was 16° 10′. In its progreſs, it paſſed above ſeveral ſmall clouds, which appeared very black, accurately defined, and far below the luminous vapour. After paſſing a little S. of *Procyon*, which it entirely obſcured, it became ſtationary at 36° 20′ S. of the zenith. In a few minutes the light grew faint, and, at 9^{h} 2′, wholly diſappeared. Soon after, another ſimilar zone formed N. of the zenith, but much fainter, and not ſo broad as the former. It paſſed 5° 40′ S. of the zenith, and diſappeared. Before 9^{h} the light in the N. was greatly diminiſhed, and appeared like a common Aurora. The wind was N. W. and very ſmall. At 9^{h}, therm. 49°----barom. 30,19. The preceding day, cloudy and rain---the third day after, rain and hail. There were alſo faint Auroras in the evenings of the 12th, 26th and 27th---the wind N. W.—rain on the day preceding that of the 12th, and rain, with thunder and lightning, that of the 26th—the ſucceeding days fair and cool.

Diſeaſes in *Ipſwich*; pleuritic fevers, worms, cholics, ophthalmias: In *Salem*; inflammatory and ſlow fevers, cholics, bad coughs: In *Beverly*; rheumatiſms, coughs,

MAY.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A.M.	Noon.	P.M.	
Higheſt,	67	78	69	30, 59	30, 32	30, 42	Rain.
Loweſt,	45	50	49	29, 42	29, 33	29, 42	Inch.
Mean ſtat.	51	61	57	30, 02	29, 88	29, 96	4,005

Plentiful

Plentiful rain on the 8th, 9th and 10th, but the air very cool after it, eſpecially in the night, which greatly retarded vegetation. Winds moſt prevalent from S. S. W. to W. N. W. Seed ſewed laſt month lay long in the ground, and much of it periſhed. Eight days on which rain fell.

Greateſt deg. of heat on the 18th, at 1, P. M.----barom. loweſt---wind S.---fair. Greateſt deg. of cold on the 5th, at 7, A. M.----barom. 29,79----wind N. W.----fair. Barom. higheſt on the 28th, at 6, A. M.---therm. 53°---wind N.W. ---fair.

Faint Aurora Borealis in the evenings of the 2d and 13th---wind N. W.---clouds and rain ſucceeded them. Severe thunder and lightning on the 23d, at 5, P. M.

Diſeaſes in *Ipſwich*; ſlow fevers, coughs, meaſles: In *Salem*; meaſles epidemic, inflammatory fevers, rheumatiſms: In *Beverly*; anginas, tonſilaris, tumors.

JUNE.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A. M.	Noon.	P. M.	
Higheſt,	76	86	85	30,42	30,41	30,41	Rain.
Loweſt,	53	57	54	29,45	29,10	29,38	Inch.
Mean ſtat,	66	75	69	29,78	29,58	29,73	3,438

The temperature of the atmoſphere, this month, exceedingly warm and moiſt, which produced a moſt rapid vegetation. Winds moſt prevalent from S. to W. Apple-trees leſs injured by canker-worms than the laſt year. Twelve rainy days.

Greateſt deg. of heat on the 19th, at 2, P. M.---barom. 29, 17---wind S. W.---fair. Greateſt deg. of cold on the 1ſt, at 6, A. M.---barom. higheſt---wind N.E.---cloudy. Barom. loweſt on the 8th, at 2, P. M.---therm. 75°---wind very high at S. W.---fair.

Very

Very faint Aurora Borealis in the evenings of the 13th and 29th---wind W.---ſhowers on the following days. Frequent thunder and lightning.

Diſeaſes in *Ipſwich*; ſlow fevers, meaſles, eryſipelas, worms, pulmonary conſumptions: In *Salem*; meaſles, diſorders of the firſt paſſages, ſynochi, peripneumonies: In *Beverly*; meaſles epidemic.

JULY.

	Therm.			Barom.			
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.	
Higheſt,	81	89	85	30, 15	30, 07	30, 12	Rain.
Loweſt,	60	64	62	29, 27	28, 96	29, 26	Inch.
Mean ſtat.	68	73	65	29, 74	29, 58	29, 70	9,062

The weather very hot, with frequent heavy ſhowers of rain. Vegetation very luxuriant. Graſs, however, ſuffered ſo much by the drought and cold in the ſpring, that the crop of hay was indifferent. Grain of all kinds appeared very fine, but is greatly injured by mildew. Flax and garden eſculents exceeding good. Indian corn in a moſt flouriſhing ſtate. Garden and wild fruit, plenty. Predominant winds from S. W. to N. W. Twelve rainy days. Frequent thunder and lightning.

Greateſt deg. of heat on the 25th, at 2, P. M.----barom. loweſt---wind S. W.---ſhower approaching. Greateſt deg. of cold on the 1ſt, at 6, A.M.---barom. 29,78---wind N. E.---cloudy. Barom. higheſt on the 29th, at 6, A. M.----therm. 63°---wind N. W.---fair.

Diſeaſes in *Ipſwich*; meaſles, diarrhæas, ſlow fevers, pulmonic complaints: In *Salem*; dyſenteries, diarrhæas, ophthalmias, inflammatory fevers: In *Beverly*; meaſles epidemic.

AUGUST.

AUGUST.

	Therm. A.M.	Noon.	P.M.	Barom. A.M.	Noon.	P.M.	
Higheſt,	78	88	85	30, 20	30, 22	30, 25	Rain.
Loweſt,	55	61	59	29, 38	29, 08	29, 07	Inch.
Mean ſtat.	66	72	68	29, 80	29, 37	29, 75	4,438

The air, by turns, very warm and very cool, for this ſeaſon. On the morning of the 10th, conſiderable froſt in low ground. At the eaſtward, it is ſaid to have been ſo ſevere as to *deſtroy* moſt of the fields of Indian corn. On the 24th, the therm. in the ſhade abroad, ranged at 95°, at 2, P.M. Repeated large ſhowers of rain. Prevailing winds between S. W. and N. W. Eleven days on which it rained.

Greateſt deg. of heat on the 24th, at 1, P. M.----barom. loweſt---wind S. S. W.---fair. Greateſt deg. of cold on the 10th, at 6, A. M.---barom. 30, 20----wind N. W.----fair. Barom. higheſt on the 26th, at 10, P. M.----therm. 61°---- wind N. E.---cloudy.

Small Aurora Borealis in the evening of the 16th---windW. —and of the 19th---wind N. W. Rain and thunder the ſecond day after the firſt---fair ſeveral days after the laſt. Thunder and lightning on the 3d, 8th, 13th and 18th.

Diſeaſes in *Ipſwich* ; pulmonic and aſthmatic diſorders, worms—Very healthy : In *Salem* ; ſlow and rheumatic fevers, ſynochi, diarrhæas, dyſenteries, cholera morbus, cholics, vomiting and purging among children : In *Beverly* ; meaſles, diarrhæas, worms.

SEPTEMBER.

	Therm. A.M.	Noon.	P.M.	Barom. A.M.	Noon.	P.M.	
Higheſt,	69	70	64	30, 38	30, 36	30, 40	Rain.
Loweſt.	45	49	49	29, 60	29, 30	29, 47	Inch.
Mean ſtat.	57	62	57	29, 95	29, 80	29, 91	1,448

The

The weather variable. Predominant winds from S. W. to N. Froſt on the 4th and 23d, but only very tender plants injured. Garden eſculents in great plenty and perfection. Ten days on which rain fell.

Greateſt deg. of heat on the 14th, at 1, P. M.---barom. loweſt---wind S.W.---fair. Greateſt deg. of cold on the 23d at 7, A. M.---barom. 30, 38---wind N. W.---fair. Barom. higheſt on the 26th, at 9, P.M.---therm. 52°---windN.---fair.

Diſeaſes in *Ipſwich*; worm caſes—Very healthy: In *Salem*; ſynochi and ſlow fevers, abſceſſes, cynanche maligna, vomiting and purging among children: In *Beverly*; meaſles, anginas, abſceſſes.

OCTOBER.

	Therm. A. M.	Noon.	P. M.	Barom. A. M.	Noon.	P. M.	
Higheſt,	55	61	67	30, 61	30, 52	30, 60	Rain.
Loweſt,	40	43	42	29, 39	29, 15	29, 38	Inch.
Mean ſtat.	49	53	51	30, 02	29, 91	29, 96	11, 607

High winds and heavy rains. A very ſevere ſtorm of rain on the 9th, and on the 18th and 19th, attended with exceſſive high winds at N. E. Towards the cloſe of the ſtorm on the 19th, conſiderable quantity of ſnow fell, but ſoon melted. In the morning of the 11th, heavy thunder, with hail and rain: alſo, ſevere thunder and lightning, with hail and rain, in the evening of the 31ſt----ſeveral buildings ſtruck, and creatures killed. Predominant winds from N. W. to N. E. Large crops of Indian corn. Apples, and other fall fruit, in greater plenty than the laſt year. No ſevere froſts. Graſs, and many kinds of vegetables retained their verdure through the month. Rained on fourteen days.

Greateſt deg. of heat on the 23d, at 1, P.M.---barom. loweſt ----wind S.S.W.---rainy. Greateſt deg. of cold on the 26th, at 7, A. M.---barom. higheſt---wind W. S. W.---fair.

Diſeaſes in *Ipſwich*; continued fevers, worm caſes very rife: In *Salem*; ſlow and ſcarlet fevers, ſynochi, pleuriſies—Sickly: In *Beverly*; bilious remitting fevers.

NOVEMBER.

	Therm.			Barom.			
	A.M.	Noon.	P.M.	A. M.	Noon.	P. M.	
Higheſt,	49	53	52	30, 80	30, 80	30, 84	Rain.
Loweſt,	25	28	26	29, 16	29, 23	29, 37	Inch.
Mean ſtat.	36	40	39	30, 07	30, 07	30, 08	5,666

Very cold, bluſtering and ſtormy. Winds frequently very high, and moſt prevalent between W. and N. Ground froze hard on the 11th---ſnow fell on the 12th, and did not wholly go off during the month. Snowed, likewiſe, on the 28th and 29th---about four inches fell in the month. Nine days of falling weather.

Greateſt deg. of heat on the 4th, at 1, P. M.---barom. 30, 03----wind W. S. W.----fair. Greateſt deg. of cold on the 23d, at 8, A. M.---barom. 30, 56---wind W. N. W.---fair. Barom. higheſt on the 18th, at 11, P. M.---therm. 32°---wind W.---fair: loweſt on the 28th, at 8, A. M.---therm. 38°---wind N. E.---ſnowed.

A ſmall ſhock of an earthquake about 11 o'clock in the night of the 29th, but was felt by very few people in this town.

Diſeaſes in *Ipſwich*; continued fevers, worm caſes, coughs: In *Salem*; low, depreſſed fevers, cynanche maligna: In *Beverly*; bilious remitting fevers.

DECEMBER.

	Therm.			Barom.			
	A. M.	Noon.	P. M.	A. M.	Noon.	P. M.	
Higheſt,	55	54	54	30, 72	30, 58	30, 63	Rain.
Loweſt,	14	16	17	29, 18	29, 09	29, 30	Inch.
Mean ſtat.	34	37	36	30, 10	30, 03	30, 07	4,933

The

The former part of the month rather mild and pleaſant, but the latter, bluſtering, ſtormy and cold. The ground moſtly bare to the 18th, and then covered with ſnow to the end of the month. Predominant winds from W.N.W. to N.E. Seventeen days of falling weather. Snow fell fourteen inches deep during the month.

Greateſt deg. of heat on the 12th, at 8, A. M.----barom. 29,84---wind S.W.---fair. Greateſt deg. of cold on the 24th, at 8, A.M.---barom. 30,35---wind W.N.W.---fair. Barom. higheſt on the 15th, at 8, A.M.---therm. 30°---wind N.N.W. ---fair: loweſt on the 1ſt, at 1, P. M.---therm. 41°---wind N. E.---rainy.

Diſeaſes in *Ipſwich*; putrid fevers, coughs, worm caſes—Healthy: In *Salem*; febrile diſorders frequent, as pleuriſies, rheumatiſms, catarrhal fevers, cynanche maligna, abſceſſes: In *Beverly*; hæmoptoes, ſlow fevers, coughs.

	Thermometer.			Barometer.			Rain.
1783.	Greateſt Height.	Leaſt Height.	Mean Height.	Greateſt Height.	Leaſt Height.	Mean Height.	Inches.
January,	46	7	31	30, 90	29, 41	30, 07	4,033
February,	53	1	36	30, 84	29, 64	30, 24	4,907
March,	56	16	39	30, 73	29, 28	30, 06	1,733
April,	80	38	50	30, 70	29, 20	30, 06	1,007
May,	78	45	56	30, 59	29, 33	29, 95	4,005
June,	86	53	70	30, 42	29, 10	29, 79	3,438
July,	89	60	69	30, 15	28, 96	29, 67	9,062
Auguſt,	88	55	69	30, 25	29, 07	29, 64	4,438
September,	70	45	59	30, 40	29, 30	29, 89	1,448
October,	67	40	51	30, 61	29, 15	29, 96	11,607
November,	53	25	38	30, 84	29, 16	30, 07	5,666
December,	55	14	36	30, 72	29, 09	30, 07	4,933
Whole Year,	89	1	50	30, 90	28, 96	29, 95	56,277